

```
ring nodes:
    1 2 3 4 5 6 7 8 9 10 11
ring/chain nodes:
    26
chain bonds:
    2-26 5-31 7-29 10-27 12-13 14-15 27-28 29-30 31-32
ring bonds:
    1-2 1-11 2-3 3-4 4-5 5-6 6-7 7-8 8-9 9-10 10-11
exact/norm bonds:
    1-2 1-11 2-3 2-26 3-4 4-5 5-6 5-31 6-7 7-8 7-29 8-9 9-10 10-11 10-27 12-13 14-15 27-28 29-30 31-32
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31

G1:[*1-*2],[*3-*4]

12 13 14 15 27

28

29

30

Match level:
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom
10:Atom 11:Atom 12:CLASS 13:CLASS 14:CLASS 15:CLASS 26:CLASS
27:CLASS 28:Atom 29:CLASS 30:Atom 31:CLASS 32:Atom

=> d his

(FILE 'HOME' ENTERED AT 10:40:08 ON 09 APR 2002)

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L1
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L2
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L4
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L5
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L6
               QUE L5 AND L4
            13 S L6
L7
L8
             0 S SZ>7
L9
         4161 S 13/SZ
L10
         14066 S 14/SZ
L11
          7638 S 15/SZ
         10223 S 16/SZ
L12
L13
          1739 S 17/SZ
          8741 S 18/SZ
L14
         13916 S 12/SZ
L15
         60324 S L9 OR L10 OR L11 OR L12 OR L13 OR L14 OR L15
L16
L17
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    FILE 'CAPLUS' ENTERED AT 10:50:58 ON 09 APR 2002
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ANSWER 1 OF 3 CAPLUS COPYRIGHT 2002 ACS
L22
     2001:300741 CAPLUS
ΑN
     134:296103
DN
TI
     Preparation of basic monocyclic compounds having NK2 antagonist action
IN
     Perrotta, Enzo; Giannotti, Danilo; Altamura, Maria; Giuliani, Sandro;
     Maggi, Carlo Alberto
     Menarini Ricerche S.P.A., Italy
PΑ
SO
     PCT Int. Appl., 24 pp.
     CODEN: PIXXD2
     Patent
DT
     English
LΑ
FAN.CNT 1
     PATENT NO.
                         KIND
                                DATE
                                                 APPLICATION NO.
PΙ
     WO 2001029066
                          A2
                                20010426
                                                 WO 2000-EP10181
                                                                    20001017
     WO 2001029066
                         A3
                                20011101
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              HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
              LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
          RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
               DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
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                                20011119
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                                19991021
PRAI IT 1999-FI217
                          Α
OS
     MARPAT 134:296103
GΙ
                  NH
          HN
                                                I
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AB Basic monocyclic compds. I [X = CH2, O, S, or S(O); Y = CH2CONH or CO; R, R1 = H or halo] and their pharmaceutically acceptable salts, including the resp. diastereoisomers and their mixts., were prepd. as NK-2 antagonists.

ΙT

Thus, $cyclo{-Suc[1-(R)-2(1,4')bipiperidinyl-1'-ylacetylamino]-Trp-Phe-[(R)-NH-CH(CH2Ph)CH2NH]}$ (I; R = Rl = H, Y = CH2CONH, X = CH2; C-Y has R the configuration) was prepd. by coupling of $cyclo{-Suc[1-(R)-amino]-Trp-Phe-[(R)-NHCH(CH2Ph)CH2NH]}$ with 4-(piperidinyl)piperidine-1-acetic acid hydrochloride (syntheses given). The product was assayed as antagonist to the NK-2 receptor of tachykinins (binding const. pKi = 9.4).

334941-96-7P 334941-97-8P 334941-98-9P 334941-99-0P 334942-00-6P 334942-01-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of basic monocyclic compds. having NK2 antagonist action)

RN 334941-96-7 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-([1,4'-bipiperidin]-1'-ylacetyl)-D-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 334941-97-8 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-[[4-(4-morpholinyl)-1-piperidinyl]acetyl]-D-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

RN 334941-98-9 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-([1,4'-bipiperidin]-1'-ylacetyl)-D-.alpha.-asparaginyl-L-tryptophyl-4-fluoro-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 334941-99-0 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-[[4-(4-morpholinyl)-1-piperidinyl]acetyl]-D-.alpha.-asparaginyl-5-fluoro-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

RN 334942-00-6 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-[[4-(1-oxido-4-thiomorpholinyl)-1-piperidinyl]acetyl]-D-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 334942-01-7 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-[[4-(4-thiomorpholinyl)-1-piperidinyl]acetyl]-D-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

IT 211689-26-8P 258530-43-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of basic monocyclic compds. having NK2 antagonist action)

RN 211689-26-8 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-D-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.11)-lactam (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 258530-43-7 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-[(1,1-dimethylethoxy)carbonyl]-D-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

IT 334942-06-2P

RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of basic monocyclic compds. having NK2 antagonist action)

RN 334942-06-2 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-D-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.11)-lactam, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 211689-26-8 CMF C33 H36 N6 O4

Absolute stereochemistry.

CM 2

CRN 76-05-1 CMF C2 H F3 O2

Page 8

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ANSWER 2 OF 3 CAPLUS COPYRIGHT 2002 ACS
      2000:117071 CAPLUS
ΑN
DN
      132:166521
ΤI
      Preparation of monocyclic compounds having NK-2 antagonist action
IN
     Altamura, Maria; Criscuoli, Marco; Guidi, Antonio; Perrotta, Enzo; Maggi,
      Carlo Alberto
     Menarini Ricerche S.p.A., Italy
PA
SO
     PCT Int. Appl., 50 pp.
     CODEN: PIXXD2
DΤ
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LΑ
     English
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                                 DATE
                                                  APPLICATION NO.
                                                                       DATE
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               MD, RU, TJ, TM
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                                 20000228
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                                                                       19990730
     EP 1102789
                           Α1
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               IE, SI, LT, LV, FI, RO
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                          Α
     WO 1999-EP5459
                           W
                                 19990730
OS
     MARPAT 132:166521
GΙ
   X^4 - CHR^1 - X^1 - CHR^2 - X^2
                        (CH<sub>2</sub>)<sub>m</sub>
H_2C - CHR^4 - X^3 - (CH_2)_n - CHR^3
                                 Ι
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AB Cyclic peptides I [X1, X2, X3, X4 = CONR, NRCO, CH2NR, NRCH2 (R = H, alkyl, benzyl); m, n = 0, 1, 2; R1, R2 = aryl, arylmethyl, 2-arylethyl; R3 = aryl, arylmethyl, 2-arylethyl; R4 = NR8R9 (R8 = H, alkyl; R9 = methanesulfonyl, tosyl, tetrahydropyranyl, tetrahydrothiopyranyl or S-oxides, piperidyl or N-substituted derivs., morpholino-, furyl- or cyanoalkyl, etc.)] or their pharmaceutically acceptable salts were prepd. as NK-2 antagonists. Thus, cyclo{Suc[1-(4-tetrahydropyranyl)amino]-Trp-Phe-[(R)-NHCH(CH2Ph)CH2NH]} (Suc = succinyl group) was prepd. by a multistep procedure starting from H-Trp-Phe-OH and assayed as antagonist on the NK-2 receptor of tachykinins (binding const. pKi = 8.5).

258529-94-1P 258530-09-5P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT

ΙT

RN

CN

(Reactant or reagent); USES (Uses)
 (prepn. of monocyclic compds. having NK-2 antagonist action)
258529-94-1 CAPLUS
L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-(tetrahydro-2H-pyran-4-yl)-D-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA

Absolute stereochemistry.

RN 258530-09-5 CAPLUS
CN 1,4,7,10-Tetraazacyclotetradecane-3,6,11,14-tetrone, 2-(1H-indol-3-ylmethyl)-5,8-bis(phenylmethyl)-12-(1-piperazinyl)-, (2S,5S,8R,12R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 258529-95-2P 258529-96-3P 258529-97-4P 258529-98-5P 258529-99-6P 258530-00-6P 258530-01-7P 258530-02-8P 258530-03-9P 258530-04-0P 258530-05-1P 258530-06-2P 258530-07-3P 258530-08-4P 258530-11-9P 258530-12-0P 258530-13-1P 258530-14-2P 258530-15-3P 258530-16-4P 258530-17-5P 258530-18-6P 258530-19-7P

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258530-20-0P 258530-21-1P 258530-22-2P
    258530-23-3P 258530-24-4P 258530-25-5P
    258530-26-6P 258530-27-7P 258530-28-8P
    258530-29-9P 258530-30-2P 258530-31-3P
     258530-32-4P 258530-33-5P 258530-34-6P
    258530-35-7P 258530-36-8P 258530-37-9P
    258530-38-0P 258818-19-8P
    RL: BAC (Biological activity or effector, except adverse); BSU (Biological
    study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
    BIOL (Biological study); PREP (Preparation); USES (Uses)
        (prepn. of monocyclic compds. having NK-2 antagonist action)
RN
    258529-95-2 CAPLUS
CN
    L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-(tetrahydro-2H-pyran-4-
    yl)-L-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA
    INDEX NAME)
```

Absolute stereochemistry.

RN 258529-96-3 CAPLUS
CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-(1-methyl-4-piperidinyl)-D-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

RN 258529-97-4 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-(tetrahydro-2H-thiopyran-4-yl)-D-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 258529-98-5 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-(tetrahydro-1,1-dioxido-2H-thiopyran-4-yl)-D-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 258529-99-6 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-methyl-N2-(tetrahydro-2H-pyran-4-yl)-D-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

RN 258530-00-6 CAPLUS

CN L-Tyrosine, N-[(2R)-2-amino-3-phenylpropyl]-N2-(tetrahydro-2H-pyran-4-yl)-D-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 258530-01-7 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-(tetrahydro-2H-pyran-4-yl)-D-.alpha.-asparaginyl-L-tryptophyl-4-fluoro-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

RN 258530-02-8 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-(tetrahydro-2H-pyran-4-yl)-D-.alpha.-asparaginyl-L-tryptophyl-3,5-difluoro-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 258530-03-9 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-(tetrahydro-2H-pyran-4-yl)-D-.alpha.-asparaginyl-L-tryptophyl-4-cyano-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

RN 258530-04-0 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-(tetrahydro-2H-pyran-4-yl)-D-.alpha.-asparaginyl-L-tryptophyl-4-(trifluoromethyl)-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 258530-05-1 CAPLUS

CN L-Alanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-(tetrahydro-2H-pyran-4-yl)-D-.alpha.-asparaginyl-L-tryptophyl-3-(4-pyridinyl)-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

RN 258530-06-2 CAPLUS

CN L-Alanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-(tetrahydro-2H-pyran-4-yl)-D-.alpha.-asparaginyl-L-tryptophyl-3-(3-pyridinyl)-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 258530-07-3 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-[1-(methylsulfonyl)-4-piperidinyl]-D-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

RN 258530-08-4 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-[1-(aminosulfonyl)-4-piperidinyl]-D-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 258530-10-8 CAPLUS

CN Cyclo[L-phenylalanyl-(.beta.R)-.beta.-[[[(2R)-2-amino-3-phenylpropyl]amino]carbonyl]-4-methyl-1-piperazinepropanoyl-L-tryptophyl] (9CI) (CA INDEX NAME)

RN 258530-11-9 CAPLUS

CN Cyclo[L-phenylalanyl-(.beta.R)-4-acetyl-.beta.-[[[(2R)-2-amino-3-phenylpropyl]amino]carbonyl]-1-piperazinepropanoyl-L-tryptophyl] (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 258530-12-0 CAPLUS

CN Cyclo[L-phenylalanyl-(.beta.R)-.beta.-[[[(2R)-2-amino-3-phenylpropyl]amino]carbonyl]-4-(methylsulfonyl)-1-piperazinepropanoyl-L-tryptophyl] (9CI) (CA INDEX NAME)

RN 258530-13-1 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-(methylsulfonyl)-L-alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 258530-14-2 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-(methylsulfonyl)-D-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

09/762,522

RN 258530-15-3 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-[(4-methylphenyl)sulfonyl]-L-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 258530-16-4 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-[(4-methylphenyl)sulfonyl]-D-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

RN 258530-17-5 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-[2-(4-morpholinyl)ethyl]-L-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 258530-18-6 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-[2-(4-morpholinyl)ethyl]-D-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

RN 258530-19-7 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-(2-furanylmethyl)-D-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 258530-20-0 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-(cyanomethyl)-D-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

RN 258530-21-1 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-(4-morpholinylacetyl)-D-alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 258530-22-2 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-(4-morpholinylacetyl)-L-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

RN 258530-23-3 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-(1H-tetrazol-1-ylacetyl)-L-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 258530-24-4 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-(1H-tetrazol-1-ylacetyl)-D-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

RN 258530-25-5 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-[(2,5-dihydro-5-thioxo-1H-tetrazol-1-yl)acetyl]-L-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 258530-26-6 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-(1H-1,2,4-triazol-1-ylacetyl)-D-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

RN 258530-27-7 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-(2-furanylcarbonyl)-D-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 258530-28-8 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-(3-thienylacetyl)-D-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

RN 258530-29-9 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-(4-morpholinylcarbonyl)-D-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 258530-30-2 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-[(4-hydroxy-1-piperidinyl)acetyl]-D-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

RN 258530-31-3 CAPLUS

CN L-Phenylalanine, N2-[[4-(aminocarbonyl)-1-piperidinyl]acetyl]-N-[(2R)-2-amino-3-phenylpropyl]-D-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 258530-32-4 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-[(3-hydroxy-1-pyrrolidinyl)acetyl]-D-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

RN 258530-33-5 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-[[(2S)-2-(hydroxymethyl)-1-pyrrolidinyl]acetyl]-D-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 258530-34-6 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-[(4-methyl-1-piperazinyl)acetyl]-D-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

RN 258530-35-7 CAPLUS
CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-[(4-methyl-1-piperazinyl)carbonyl]-D-.alpha.-asparaginyl-L-tryptophyl-,
(3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 258530-36-8 CAPLUS
CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-[[4-(aminosulfonyl)-1-piperazinyl]acetyl]-D-.alpha.-asparaginyl-L-tryptophyl-,
(3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

RN 258530-37-9 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-[(1-oxido-4-thiomorpholinyl)acetyl]-D-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 258530-38-0 CAPLUS

CN L-Phenylalanine, N-(trans-4-hydroxycyclohexyl)glycyl-N-[(2R)-2-amino-3-phenylpropyl]-D-.alpha.-asparaginyl-L-tryptophyl-, (4.fwdarw.2)-lactam (9CI) (CA INDEX NAME)

RN 258818-19-8 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-(tetrahydro-1-oxido-2H-thiopyran-4-yl)-D-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 211689-26-8P 211689-75-7P 258530-43-7P

258530-64-2P 258530-65-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of monocyclic compds. having NK-2 antagonist action)

RN 211689-26-8 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-D-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.11)-lactam (9CI) (CA INDEX NAME)

RN 211689-75-7 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-L-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 211689-25-7 CMF C33 H36 N6 O4

Absolute stereochemistry.

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 258530-43-7 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-[(1,1-dimethylethoxy)carbonyl]-D-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 258530-64-2 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-[(9H-fluoren-9-ylmethoxy)carbonyl]-D-.alpha.-asparaginyl-L-tryptophyl-4-cyano-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

RN 258530-65-3 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-D-.alpha.-asparaginyl-L-tryptophyl-4-cyano-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L22 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2002 ACS
    1998:550436 CAPLUS
AN
DN
    129:189672
TI
    Monocyclic compounds with four bifunctional residues having NK-2
    antagonist action
IN
    Giorgi, Raffaello; Di Bugno, Cristina; Giannotti, Danilo; Maggi, Carlo
PΑ
    Menarini Ricerche S.p.A., Italy
    PCT Int. Appl., 39 pp.
SO
    CODEN: PIXXD2
DT
    Patent
    English
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    PATENT NO.
                  KIND DATE
                                      APPLICATION NO. DATE
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    WO 9834949
                   A2 19980813
                                       WO 1998-EP599 19980204
    WO 9834949
                   A3 19981022
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                                                     19980204
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PRAI IT 1997-FI20
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                         19970207
    WO 1998-EP599
                   W
                         19980204
OS
    MARPAT 129:189672
GΙ
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$$x^{4}-cR^{1}R^{5}-x^{1}-cR^{2}R^{6}-x^{2}$$
 $(CH_{2})_{p}$
 $R^{4}-cH-(CH_{2})_{q}-x^{3}-(CH_{2})_{n}-c-R^{3}$
 R^{7}
 R^{7}

AB Monocyclic compds. I [X1, X2, X3, X4 = CONR, NRCO, OCO, CO2, CH2NR, NR, CH2, CH2CH2 (R = H, alkyl, benzyl); m, n, p, q = 0, 1, 2; R1, R2 = aryl, arylmethyl, 2-arylethyl; R3 = H, alkyl, aryl, arylmethyl, 2-arylethyl; R4 = H, alkyl, L-Q (L = bond or alkyl group; Q = H, OH, NH2, CO2H, tetrazolyl, SO2NH2, etc.); R5, R6, R7 = H, alkyl] or their pharmaceutically acceptable salts were prepd. as NK-2 antagonists. Thus, cyclo(-Suc-Trp-Phe-[(R)-NHCH(CH2Ph)CH2NH-]) (Suc = succinyl group) was prepd. from H-Trp-Phe-OH, (R)-1-benzyl-2-(benzyloxycarbonylamino)ethylamin e, and succinic anhydride. The synthesized compds. were assayed as human NK-2 receptor antagonists.

IT 211689-25-7P 211689-26-8P 211689-49-5P

211689-52-0P

RL: BAC (Biological activity or effector, except adverse); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(monocyclic compds. with four bifunctional residues having NK-2 antagonist action)

RN 211689-25-7 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-L-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 211689-26-8 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-D-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.11)-lactam (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 211689-49-5 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-(3-carboxy-1-oxopropyl)-L-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

RN 211689-52-0 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-(carboxymethyl)-L-alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 211689-51-9 CMF C35 H38 N6 O6

Absolute stereochemistry.

CM 2

CRN 76-05-1 CMF C2 H F3 O2

IT 211689-29-1P 211689-38-2P 211689-40-6P 211689-42-8P 211689-46-2P 211689-48-4P 211689-50-8P 211689-54-2P 211689-55-3P 211689-57-5P 211689-59-7P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(monocyclic compds. with four bifunctional residues having NK-2 antagonist action)

RN 211689-29-1 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-methyl-L-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 211689-38-2 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-(1H-tetrazol-5-ylmethyl)-L-alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 211689-37-1 CMF C35 H38 N10 O4

CRN 76-05-1 CMF C2 H F3 O2

RN 211689-40-6 CAPLUS

CN Cyclo[(3S)-4-[[(2R)-2-amino-3-phenylpropyl]amino]-3-(4-morpholinyl)-4-oxobutanoyl-L-tryptophyl-L-phenylalanyl], mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 211689-39-3 CMF C37 H42 N6 O5

CRN 76-05-1 CMF C2 H F3 O2

RN 211689-42-8 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2,N2-dimethyl-L-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 211689-41-7 CMF C35 H40 N6 O4

CRN 76-05-1 CMF C2 H F3 O2

RN 211689-46-2 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2,N2-bis(2-hydroxyethyl)-L-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam, mono(trifluoroacetate) (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 211689-45-1 CMF C37 H44 N6 O6

CRN 76-05-1 CMF C2 H F3 O2

RN 211689-48-4 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-[(2R)-2,3-dihydroxypropyl]-L-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam, mono(trifluoroacetate) (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 211689-47-3 CMF C36 H42 N6 O6

CRN 76-05-1 CMF C2 H F3 O2

RN 211689-50-8 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-[4-(.beta.-D-glucopyranosylamino)-1,4-dioxobutyl]-L-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

RN 211689-54-2 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-[2-(.beta.-D-glucopyranosylamino)-2-oxoethyl]-L-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam, mono(trifluoroacetate) (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 211689-53-1 CMF C41 H49 N7 O10

Absolute stereochemistry.

CM 2

CRN 76-05-1 CMF C2 H F3 O2

CN

RN 211689-55-3 CAPLUS

L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2[[(1.alpha.,3R,4.alpha.,5R)-1,3,4,5-tetrahydroxycyclohexyl]carbonyl]-L.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

RN 211689-57-5 CAPLUS

CN L-Phenylalanine, N2-(4-amino-1-oxobutyl)-N-[(2R)-2-amino-3-phenylpropyl]-L.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam,
mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 211689-56-4 CMF C37 H43 N7 O5

Absolute stereochemistry.

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 211689-59-7 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-([1,4'-bipiperidin]-1'-ylacetyl)-L-alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 211689-58-6 CMF C45 H56 N8 O5

Absolute stereochemistry.

CM 2

CRN 76-05-1 CMF C2 H F3 O2

IT 211689-74-6P 211689-80-4P 211689-81-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (monocyclic compds. with four bifunctional residues having NK-2 antagonist action)

RN 211689-74-6 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-[(1,1-dimethylethoxy)carbonyl]-L-.alpha.-asparaginyl-L-tryptophyl-,

Absolute stereochemistry.

RN 211689-80-4 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-[[2-(triphenylmethyl)-2H-tetrazol-5-yl]methyl]-L-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 211689-81-5 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-N2-[2-(1,1-dimethylethoxy)-2-oxoethyl]-L-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam (9CI) (CA INDEX NAME)

IT 211689-75-7P

RL: SPN (Synthetic preparation); PREP (Preparation) (monocyclic compds. with four bifunctional residues having NK-2 antagonist action)

RN 211689-75-7 CAPLUS

CN L-Phenylalanine, N-[(2R)-2-amino-3-phenylpropyl]-L-.alpha.-asparaginyl-L-tryptophyl-, (3.fwdarw.1)-lactam, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 211689-25-7 CMF C33 H36 N6 O4

Absolute stereochemistry.

CM 2

CRN 76-05-1 CMF C2 H F3 O2